Syapse Showcases Real-World Mortality Data in American Society of Clinical Oncology's JCO-CCI

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SAN FRANCISCO, April 09, 2021 (GLOBE NEWSWIRE) -- Syapse®, a leading real-world evidence company accelerating the delivery of precision medicine through the Syapse Learning Health Network™, today announced that the findings of a peer-reviewed study were published in JCO Clinical Cancer Informatics (JCO-CCI), an American Society of Clinical Oncology (ASCO) Journal.

The study, titled "Validation of a mortality composite score in the real-world setting: overcoming source specific disparities and biases," explored the Syapse Learning Health Network platform's ability to accurately assess oncology mortality rates, ultimately demonstrating that a composite mortality score was capable of achieving sensitivity of 94.9% and specificity of 92.8%, as compared to the National Death Index (NDI), with concordance within one day of 98.7%.

"As an oncologist and investigator, being able to provide accurate mortality prediction is essential. In order to do so, we need to have access to high quality, trustworthy real-world data," said Dr. Thomas Brown, chief medical officer at Syapse. "This study demonstrates the value of Syapse' multi-source approach in understanding a patient's vital status, a critical data element required for robust outcomes research to provide insight into disease behavior."

Mortality is an important data element in oncology research. Complete and accurate mortality data are critical for calculating accurate overall survival. In the real-world setting, there isn't a single complete source for mortality that can be used broadly. In addition, potential disparities in which patients are included based on sex, race, age, and socioeconomic status are not well studied. The Syapse Learning Health Network™ draws upon a combination of six individual real-world data sources to develop a high-quality composite mortality score. This study observed that each of the six individual sources had disparities in coverage across subgroups of sex, race, age, and socioeconomic status, but that the composite mortality score was able to overcome these biases, maintaining high sensitivity (84.6% - 96.1%), specificity (77.9% - 99.2%), and concordance within one day (95.7% - 100.0%) across subgroups.

"This study showed that social determinants of health can impact which patients are represented in data collection. However, by rolling up data across six real-world sources we were able to achieve a complete and accurate picture of mortality data." added Michelle Lerman, lead author and director of strategy at Syapse. "This is really important, given that complete and accurate mortality data is critical for development of real-world endpoints, such as overall survival, and selection of patients for clinical trials."

About the Syapse Learning Health Network™
This international network of healthcare providers enables improved cancer care by sharing real-world data to support clinical decisions and by fostering collaborations among participants. Healthcare providers, including doctors and nurses, share and learn which cancer treatments produced the best real-world outcomes in clinically and molecularly similar patients. Researchers learn from real-world clinical, molecular, treatment and outcomes data. These collaborations are enabled by a secure platform of shared de-identified data that is standardized and normalized across
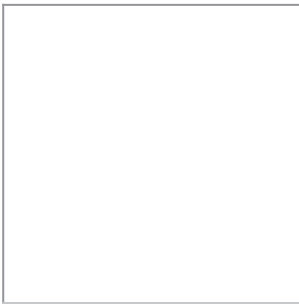
the Learning Health Network and complies with all applicable federal and state data privacy protection regulations.

About Syapse
Syapse works with leading health systems, life sciences companies, and regulators to explore opportunities to use real-world evidence to improve the outcomes of cancer patients. By bringing these organizations together into the Syapse Learning Health Network™, Syapse has built one of the world's largest networks with a goal to improve outcomes in cancer care through improved precision medicine. Syapse and its partners are working towards a future in which all cancer patients have access to the quality of care they need.

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